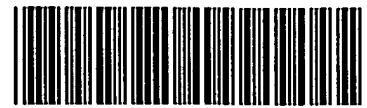


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/736,892  
Source: JFWO  
Date Processed by STIC: 3/15/05

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/736,892

DATE: 03/15/2005

TIME: 14:23:18

Input Set : D:\US Utility 50229-424 Sequence Listing.txt  
 Output Set: N:\CRF4\03152005\J736892.raw

3 <110> APPLICANT: University of Kentucky Research Foundation  
 4 JI, Tai  
 5 JI, Inhae  
 7 <120> TITLE OF INVENTION: GENES AND AGENTS TO REGULATE FOLLICULAR DEVELOPMENT,  
 OVULATION  
 8 CYCLE AND STERIODOGENESIS  
 10 <130> FILE REFERENCE: 050229-0424  
 12 <140> CURRENT APPLICATION NUMBER: 10/736,892  
 13 <141> CURRENT FILING DATE: 2003-12-17  
 15 <150> PRIOR APPLICATION NUMBER: 60/437,729  
 16 <151> PRIOR FILING DATE: 2003-01-03  
 18 <160> NUMBER OF SEQ ID NOS: 13  
 20 <170> SOFTWARE: PatentIn version 3.3  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 21  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Chemically synthesized  
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 31 ctgactggcg agaactggat g 21  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 21  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Chemically synthesized  
 42 <400> SEQUENCE: 2  
 43 acagtatgca ggcttcgctc c 21  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 21  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Artificial Sequence  
 51 <220> FEATURE:  
 52 <223> OTHER INFORMATION: Chemically synthesized  
 54 <400> SEQUENCE: 3  
 55 gcttccctc tgttgaccca c 21  
 58 <210> SEQ ID NO: 4  
 59 <211> LENGTH: 21  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:  
 64 <223> OTHER INFORMATION: Chemically synthesized  
 66 <400> SEQUENCE: 4

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/736,892

DATE: 03/15/2005

TIME: 14:23:18

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72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: Chemically synthesized
78 <400> SEQUENCE: 5
79 ctgaaggta aaggaaatgt g 21
82 <210> SEQ ID NO: 6
83 <211> LENGTH: 21
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Chemically synthesized
90 <400> SEQUENCE: 6
91 ggacagagtc ttgatgatct c 21
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 1099
96 <212> TYPE: DNA
97 <213> ORGANISM: Rattus norvegicus
99 <400> SEQUENCE: 7
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102 tccgcagctc cagccctcctc atccgcggcc tggaggccgc actggccaaac ttctccaaag 120
104 gtccgcacgg aggggtcatg caaccgggtgc gcaccgtgttgc ctgtggcc aaccggcgg 180
106 gcttcttggg agtcatgcca gcctacagtgc cctgtgggatg tgcactcacc accaagttag 240
108 tcaccttcta tgagggccac agcaacaatg ctgtccctc ccaccaggca tcagtgcctc 300
110 tctttatgtcc cagcaatgggt tccctgtgg cggcatgtgg tggaaatgtc ataactgcaa 360
112 agaggacagc agccgtctct gccatgcca ccaagttttt gaagccccca ggcagtgtatg 420
114 tgctgtgcattcttgggcttgggtccagg cgtacagtca ctatgagatc ttacacagaac 480
116 agttctcctt caaggaggtg agaatgtgga accgcaccagg gggaaatgtc gagaagtttgc 540
118 caagctcagt gcagggagat gttcgggtcttcatcgt gcaggaggtt gtgacaggtg 600
120 cccatgtcat catcacagtc accatggca cggagcccat tttatgttggt gaatgggtga 660
122 agccggggcgtc acatcaat gctgttggag ccagttagacc tgactggcga gaactggatg 720
124 acgagctcat gaagcaagca gtgtgtatg tggactcccg ggaggctgccc ctaaaggagt 780
126 caggagatgt tctgtgtca gggctgaca tctttgtga gcttggagaa gtggtttcag 840
128 gagcgaagcc tgcatactgt gagaagacca cgggttcaa gtctttgggg atggcagtgg 900
130 aggacctggc cgcagccaaa ttatgttacg attcgtggtc atctggcaag tgagcagaag 960
132 gagctgtgcc tgggtggat ggacgtcaac gctcaaacgc tggctcaatg tctagatcaa 1020
134 aggaggccta gtccccagtg aacgggagtg agagtcaatc ataagtatttgc acatccctat 1080
136 tcatgtttgttggata 1099
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 313
141 <212> TYPE: PRT
142 <213> ORGANISM: Rattus norvegicus
144 <400> SEQUENCE: 8
146 Met Arg Arg Ala Pro Ala Phe Leu Ser Ala Asp Glu Val Gln Asp His
147 1 5 10 15
150 Leu Arg Ser Ser Ser Leu Leu Ile Pro Pro Leu Glu Ala Ala Leu Ala

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## RAW SEQUENCE LISTING

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DATE: 03/15/2005

TIME: 14:23:18

Input Set : D:\US Utility 50229-424 Sequence Listing.txt  
 Output Set: N:\CRF4\03152005\J736892.raw

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151      20          25          30
154 Asn Phe Ser Lys Gly Pro Asp Gly Gly Val Met Gln Pro Val Arg Thr
155      35          40          45
158 Val Val Pro Val Ala Lys His Arg Gly Phe Leu Gly Val Met Pro Ala
159      50          55          60
162 Tyr Ser Ala Ala Glu Asp Ala Leu Thr Thr Lys Leu Val Thr Phe Tyr
163 65      70          75          80
166 Glu Gly His Ser Asn Asn Ala Val Pro Ser His Gln Ala Ser Val Leu
167      85          90          95
170 Leu Phe Asp Pro Ser Asn Gly Ser Leu Leu Ala Val Met Asp Gly Asn
171      100         105         110
174 Val Ile Thr Ala Lys Arg Thr Ala Ala Val Ser Ala Ile Ala Thr Lys
175      115         120         125
178 Phe Leu Lys Pro Pro Gly Ser Asp Val Leu Cys Ile Leu Gly Ala Gly
179      130         135         140
182 Val Gln Ala Tyr Ser His Tyr Glu Ile Phe Thr Glu Gln Phe Ser Phe
183 145      150         155         160
186 Lys Glu Val Arg Met Trp Asn Arg Thr Arg Glu Asn Ala Glu Lys Phe
187      165         170         175
190 Ala Ser Ser Val Gln Gly Asp Val Arg Val Cys Ser Ser Val Gln Glu
191      180         185         190
194 Ala Val Thr Gly Ala Asp Val Ile Ile Thr Val Thr Met Ala Thr Glu
195      195         200         205
198 Pro Ile Leu Phe Gly Glu Trp Val Lys Pro Gly Ala His Ile Asn Ala
199      210         215         220
202 Val Gly Ala Ser Arg Pro Asp Trp Arg Glu Leu Asp Asp Glu Leu Met
203 225      230         235         240
206 Lys Gln Ala Val Leu Tyr Val Asp Ser Arg Glu Ala Ala Leu Lys Glu
207      245         250         255
210 Ser Gly Asp Val Leu Leu Ser Gly Ala Asp Ile Phe Ala Glu Leu Gly
211      260         265         270
214 Glu Val Val Ser Gly Ala Lys Pro Ala Tyr Cys Glu Lys Thr Thr Val
215      275         280         285
218 Phe Lys Ser Leu Gly Met Ala Val Glu Asp Leu Val Ala Ala Lys Leu
219      290         295         300
222 Val Tyr Asp Ser Trp Ser Ser Gly Lys
223 305      310
226 <?> SEQ ID NO: 9
227 <11> LENGTH: 313
228 <212> TYPE: PRT
229 <213> ORGANISM: Mus musculus
231 <400> SEQUENCE: 9
233 Met Lys Arg Ala Pro Ala Phe Leu Ser Ala Glu Glu Val Gln Asp His
234 1      5          10          15
237 Leu Arg Ser Ser Ser Leu Leu Ile Pro Pro Leu Glu Ala Ala Leu Ala
238      20          25          30
241 Asn Phe Ser Lys Gly Pro Asp Gly Gly Val Met Gln Pro Val Arg Thr
242      35          40          45
245 Val Val Pro Val Ala Lys His Arg Gly Phe Leu Gly Val Met Pro Ala

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Input Set : D:\US Utility 50229-424 Sequence Listing.txt  
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246 50 55 60  
 249 Tyr Ser Ala Ala Glu Asp Ala Leu Thr Thr Lys Leu Val Thr Phe Tyr  
 250 65 70 75 80  
 253 Glu Gly His Ser Asn Thr Ala Val Pro Ser His Gln Ala Ser Val Leu  
 254 85 90 95  
 257 Leu Phe Asp Pro Ser Asn Gly Ser Leu Leu Ala Val Met Asp Gly Asn  
 258 100 105 110  
 261 Val Ile Thr Ala Lys Arg Thr Ala Ala Val Ser Ala Ile Ala Thr Lys  
 262 115 120 125  
 265 Leu Leu Lys Pro Pro Gly Ser Asp Val Leu Cys Ile Leu Gly Ala Gly  
 266 130 135 140  
 269 Val Gln Ala Tyr Ser His Tyr Glu Ile Phe Thr Glu Gln Phe Ser Phe  
 270 145 150 155 160  
 273 Lys Glu Val Arg Met Trp Asn Arg Thr Arg Glu Asn Ala Glu Lys Phe  
 274 165 170 175  
 277 Ala Ser Thr Val Gln Gly Asp Val Arg Val Cys Ser Ser Val Gln Glu  
 278 180 185 190  
 281 Ala Val Thr Gly Ala Asp Val Ile Ile Thr Val Thr Met Ala Thr Glu  
 282 195 200 205  
 285 Pro Ile Leu Phe Gly Glu Trp Val Lys Pro Gly Ala His Ile Asn Ala  
 286 210 215 220  
 289 Val Gly Ala Ser Arg Pro Asp Trp Arg Glu Leu Asp Asp Glu Leu Met  
 290 225 230 235 240  
 293 Arg Gln Ala Val Leu Tyr Val Asp Ser Arg Glu Ala Ala Leu Lys Glu  
 294 245 250 255  
 297 Ser Gly Asp Val Leu Leu Ser Gly Ala Asp Ile Phe Ala Glu Leu Gly  
 298 260 265 270  
 301 Glu Val Ile Ser Gly Ala Lys Pro Ala His Cys Glu Lys Thr Thr Val  
 302 275 280 285  
 305 Phe Lys Ser Leu Gly Met Ala Val Glu Asp Leu Val Ala Ala Lys Leu  
 306 290 295 300  
 309 Val Tyr Asp Ser Trp Ser Ser Gly Lys  
 310 305 310  
 313 <210> SEQ ID NO: 10  
 314 <211> LENGTH: 314  
 315 <212> TYPE: PRT  
 316 <213> ORGANISM: Homo sapiens  
 318 <400> SEQUENCE: 10  
 320 Met Ser Arg Val Pro Ala Phe Leu Ser Ala Ala Glu Glu Glu Asp His  
 321 1 5 10 15  
 324 Leu Arg Ser Ser Ser Leu Leu Ile Pro Pro Leu Glu Thr Ala Leu Ala  
 325 20 25 30  
 328 Asn Phe Ser Ser Gly Glu Asp Gly Gly Val Met Gln Pro Val Arg Thr  
 329 35 40 45  
 332 Val Val Pro Val Thr Lys His Arg Gly Tyr Leu Gly Val Met Pro Ala  
 333 50 55 60  
 336 Tyr Ser Ala Ala Glu Asp Ala Leu Thr Thr Lys Leu Val Thr Phe Tyr  
 337 65 70 75 80  
 340 Glu Asp Arg Gly Ile Thr Ser Val Val Pro Ser His Gln Ala Thr Val

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Input Set : D:\US Utility 50229-424 Sequence Listing.txt  
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341	85	90	95	
344	Leu Leu Phe Glu Pro Ser Asn Gly Thr	Leu Leu Ala Val	Met Asp Gly	
345	100	105	110	
348	Asn Val Ile Thr Ala Lys Arg Thr	Ala Ala Val	Ser Ala Ile Ala Thr	
349	115	120	125	
352	Lys Phe Leu Lys Pro Pro Ser Ser	Glu Val Leu Cys	Ile Leu Gly Ala	
353	130	135	140	
356	Gly Val Gln Ala Tyr Ser His Tyr	Glu Ile Phe Thr	Glu Gln Phe Ser	
357	145	150	155	160
360	Phe Lys Glu Val Arg Ile Trp Asn Arg	Thr Lys Glu Asn	Ala Glu Lys	
361	165	170	175	
364	Phe Ala Asp Thr Val Gln Gly Glu	Val Arg Val Cys	Ser Ser Val Gln	
365	180	185	190	
368	Glu Ala Val Ala Gly Ala Asp Val	Ile Ile Thr Val	Thr Leu Ala Thr	
369	195	200	205	
372	Glu Pro Ile Leu Phe Gly Glu Trp Val Lys	Pro Gly Ala His	Ile Asn	
373	210	215	220	
376	Ala Val Gly Ala Ser Arg Pro Asp Trp Arg	Glu Leu Asp Asp	Glu Leu	
377	225	230	235	240
380	Met Glu Gln Ala Val Leu Tyr Val Asp Ser	Gln Glu Ala Ala	Leu Lys	
381	245	250	255	
384	Glu Ser Gly Asp Val Leu Leu Ser Gly	Ala Glu Ile Phe	Ala Glu Leu	
385	260	265	270	
388	Gly Glu Val Ile Lys Gly Val Lys	Pro Ala His Cys	Glu Lys Thr Thr	
389	275	280	285	
392	Val Phe Lys Ser Leu Gly Met Ala Val Glu Asp	Thr Val Ala Ala	Lys	
393	290	295	300	
396	Leu Ile Tyr Asp Ser Trp Ser Ser Gly Lys			
397	305	310		
400	<210> SEQ ID NO: 11			
401	<211> LENGTH: 1015			
402	<212> TYPE: DNA			
403	<213> ORGANISM: Rattus norvegicus			
405	<400> SEQUENCE: 11			
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408	gagatttctg aaagaaaaact gccgtccaga tggaaagagaa	cttggtaat	tcagaaccac	120
410	aactgtcaac atagggtcga tcagtagacg	ggatggctct	gctctagtga	180
412	caccacagtc atttggag ttaaagcaga	atttgcagca	ccaccatgg	240
414	tagaggatat gtcgtcccta atgtggacct	accaccgctg	tgttcatcga	300
416	tggacctcct ggagaagagg ctcaagtaac	cagccagttc	attgcagatg	360
418	ctcacacata attaagaaag aggacttag	catttctcca	ggaaagcttgc	420
420	atactgtgac cttatttgcc tagactacga	tggaaacatt	ttggatgcct	480
422	tttggtagca gctttaaaga atgtacagt	gcctgaagtt	actataaatg	540
424	tttagcggaa gtcaattaa agaagaaaag	ttatttgaat	gttagagcaa	600
426	tacttcattt gctgtgtttg atgacactt	gctgatagtc	gatcctaccc	660
428	gcaccctgtc cacaggaacc ttaaccgtag	taatggacga	ggaggcaag	720
430	ttcacaagcc aggtggagttt gggctgtgg	agctaaactt	caggactgca	780
432	agtaacgaga cacaaagaag tgagcaaact	actggatgaa	gtattcaga	840
434	caaatgaaca gacgccacga ttgtaaaaca	gctgtaaaaa	ttgtatttgt tacactgtgc	900

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/736,892

DATE: 03/15/2005

TIME: 14:23:19

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